



21st Annual Environmental and Ground Water Quality Conference

Agenda

***March 18 & 19, 2009
Pierre, South Dakota***

WEDNESDAY, MARCH 18, 2009
AmericInn Teton Island Conference Center

7:30 a.m. Conference Registration-AmericInn Teton Island Conference Center

8:15 a.m. *Introductions/Announcements:* **Bill Markley**, Dept. of Environment and Natural Resources, Pierre, SD

MODERATOR: Damon Powers, Summit Envirosolutions, Inc., St. Paul, MN

8:30 a.m. *Man-Made Organic Contaminants in Source and Finished Waters of Community Water Systems:* **Greg Delzer**, United States Geological Survey, Rapid City, SD

9:00 a.m. Ever wonder how much stream flow makes it to groundwater-Results of a laboratory experiment: **Suzette Burckhard/Pat Emmons**, SD State University, Brookings, SD

9:30 a.m. *Risk Analysis for the Keystone Pipeline:* **Heidi Tillquist**, AECOM Environment, Fort Collins, CO

10:00 a.m. *Resources and Geology of South Dakota:* **William Siok**, American Institute of Professional Geologists, Westminster, CO

10:30 a.m. *Radiation Measurement:* **Dean Aurand**, Mid Continent Testing Labs, Inc, Rapid City, SD

11:00 a.m. **EXHIBIT AREA OPENS**

11:30 – 1:00 **South Dakota Section of the American Institute of Professional Geologists, Annual Business Meeting, Perkins Restaurant, Fort Pierre, SD**

MODERATOR: Tim Kenyon, Leggette, Brashears & Graham, Sioux Falls, SD

1:20 p.m. *Groundwater Characterization, Pump Tests, and Modeling of the Dewey-Burdock Uranium Project, Fall River and Custer Counties, South Dakota:* **Crystal Hocking**, RESPEC, Rapid City, SD

1:50 p.m. *A Qualitative Model for Biogeochemical Sequestration of Uranium and Associated Metals in Ground Water-Implications for Reclamation of In-Situ Leach Mining:* **Gregory Kipp**, South Dakota School of Mines & Technology, Rapid City, SD

2:20 p.m. *In-Situ Recovery Mining Impacts on Groundwater Consumption:* **Doug Pavlick**, Cameco – Crow Butte Operation, Crawford, NE

2:50 p.m. **REFRESHMENT BREAK**

3:20 p.m. *Groundwater Reduction Measurements and Water Quality at Homestake DUSEL:* **Larry Stetler**, South Dakota School of Mines and Technology, Rapid City, SD

3:50 p.m. *In-situ De-nitrification at Wharf Resources: Ross Valley:* **Jack Adams**, Bioremediation & Bioprocess Consulting LLC, **Ron Waterland**, Wharf Resources (USA), Inc., Lead, SD

4:20 p.m. *Was Rachel Carson Right? Organochlorines-A Half Century after Silent Spring:* **Mike Meyer**, GeoTek Engineering and Testing, Inc., Sioux Falls, SD

4:50 p.m. *A Methodology for Computing the Resultant Composition of Mixed Waters:* **Henry Mott**, South Dakota School of Mines and Technology, Rapid City, SD

5:20 p.m. **ADJOURN TO EXHIBIT AREA FOR SOCIAL-FOOD, DRINK & CONVERSATION**

THURSDAY, MARCH 19, 2009
AmericInn Teton Island Conference Center

MODERATOR: Derric Iles, South Dakota Geological Survey, Vermillion, SD

- 8:00 a.m. *Surfactant Amended Vacuum Enhanced Recovery (SA VER) Process for Pooled and Residual Separate Phase Hydrocarbon (SPH):* **Joe Jordan**, Enviro Clean Services, LLC, Wappingers Falls, NY
- 8:30 a.m. *LNAPL Remediation and Risk Mitigation – A Midwestern Case Study:* **Kathleen Cameron**, Terracon Consultants, Inc., Rapid City, SD
- 9:00 a.m. *Implementation of In-Situ Reductive Treatment Technology at Ellsworth Air Force Base:* **Joe Odegaard**, URS Corporation, Ellsworth AFB, SD
- 9:30 a.m. **REFRESHMENT BREAK**
- 10:00 a.m. *Why are the Sediments of Some Regional Aquifers More Reactive than Others?:* **Scott Korom**, University of North Dakota, Grand Forks, ND
- 10:30 a.m. *Understanding Low-Flow Groundwater Sampling Methods and Techniques and Meeting Regulatory Requirements:* **Jim Broderick**, In-Situ Inc., Fort Collins, CO
- 11:00 a.m. *Rehabilitation of Groundwater Recovery Wells - Improved Treatment Technology:* **Eric Fraser**, Remediation Services Company, Valley Center, KS
- 11:30 a.m. **LUNCH BREAK**

MODERATOR: Scott Korom, University of North Dakota, Grand Forks, ND

- 1:00 p.m. *It's not always someone's fault – Uncommonly high concentrations of nitrate and selenium in water in Jackson County, SD:* **Derric Iles**, South Dakota Geological Survey, Vermillion, SD
- 1:30 p.m. *Relationships between Water Quality and Mercury Fish Tissue Concentrations for Lakes and Impoundments in South Dakota:* **James Stone**, South Dakota School of Mines and Technology, Rapid City, SD
- 2:00 p.m. *Risk Assessment of a Subsurface Gasoline Spill:* **Linda Watts**, GeoTek Engineering and Testing, Inc., Sioux Falls, SD
- 2:30 p.m. **REFRESHMENT BREAK**
- 3:00 p.m. *Mica-Based Soil Amendment to Improve Mine Reclamation Performance by Increasing Soil Water Holding Capacity, Evapotranspiration, and Vegetative Cover:* **George Kruse**, Pacer Corporation, Custer, SD
- 3:30 p.m. *The Missouri River Ecosystem Restoration Plan:* **Cheryl Chapman**, Matrix Consulting Group, Rapid City, SD
- 4:00 p.m. *Petroleum Release Compensation Fund Regulatory Update:* **Alan Bakeberg**, Petroleum Release Compensation Fund, Pierre, SD
- 4:30 p.m. *DENR Summary:* **Bill Markley**, Dept. of Environment and Natural Resources, Pierre, SD
- 5:00 p.m. Adjourn